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# PRE-RECRUIT TRAINING VALUES, EXPECTATIONS, AND INTENTIONS OF MARINE CORPS RECRUITS

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# PRE-RECRUIT TRAINING VALUES, EXPECTATIONS, AND INTENTIONS OF MARINE CORPS RECRUITS

## Introduction

This report summarizes the first phase of a longitudinal study of individual and organizational causes and correlates of attrition among first term enlisted personnel in the U.S. Marine Corps. The overall design of the study is described and the measures and sample composition are discussed. Data describing the pre-recruit training values, expectations, and intentions of Marine Corps Recruits are presented and discussed. Finally, analyses to be reported in subsequent technical reports are outlined.

The conceptual models, measures, and results of this longitudinal study are of potential interest to both the manpower and basic research communities. However, it is difficult to address the needs and interests of both communities in the same report while maintaining a reasonable length. Since the present research is being supported by developmental rather than basic research funds, this report is written with the interests of the manpower community as the primary concern. Several of the subsequent technical reports will deal with conceptual, theoretical and methodological issues of primary interest to the basic research community.

## Problem

Attrition among first term enlisted military personnel is a problem of justifiable concern. Declining numbers of citizens

in the primary recruiting age groups, an improving economy providing alternative employment opportunities, and increasingly technologically sophisticated manpower requirements serve to under-score the nature of the problem. (See e.g. Mattews, 1977). Pre-end of active obligated service (EAOS) attrition places additional burden on the recruiting function which is already dealing with a tightening labor market. Pre-EAOS attrition represents a significant cost to the military (see e.g. Huck and Midlam, 1977) and a potentially significant cost to individuals who attrite. (This does not imply that all attrition is bad. Attrition of certain individuals at certain times may be desirable from cost-effectiveness, unit-effectiveness, and individual perspectives. This issue will be explored in a subsequent paper).

Research on military attrition has been reviewed elsewhere (Logan, Cathcart, Hand and Mobley, 1977). That review indicated that the military research on attrition: has placed relatively more emphasis on remainstrant than pre-EAOS attrition; has placed relatively more emphasis on individual variables (e.g. education, mental grade, etc.) than on organizational variables; has infrequently analyzed the possible joint or interactive contribution to attrition of individual and organizational variables; has infrequently utilized longitudinal designs; and has infrequently used experimental designs. Also, it should be noted that the shift to the all volunteer concept raises issues of generalizability of pre-1973 research.

The present research program seeks to assess the contribution to pre-EAOS attrition of both individual and organizational variables using multivariate analyses, a longitudinal design, and subjects

who enlisted after the shift to the all volunteer military.

## General Model

The general model serving as a basis for this study is a role choice model. (See Figure 1). This model is a variant of the generalized expectancy model of organizational benation (Vroom, 1964; Campell, Dunnette, Lawler, and Weick, 1970; Dachler and Mobley, 1973; Lawler, 1973). For reviews of the expectancy model, see Locke (1975) and Mitchell (1974). See Wiskoff (1977) for a multinational review of military career expectation research.

The role choice model being used here addresses the following kinds of questions. Why do individuals choose a military role, in the present case an enlisted Marine Corps role, as opposed to a civilian role? Why do individuals choose to engage in effective role behavior, in the present case behavior which will not lead to pre-EAOS discharge? Why do individuals choose to reenlist or nor reenlist?

The model suggests that role choice can, in part, be understood and predicted by knowledge of:

- The <u>value</u> individuals place on various role outcomes or consequences, e.g. pay, learning new skills, travel, etc.;
- b) The individuals perceived expectancy that a given role
  will or will not lead to various outcomes or consequences;
   i.e. role-outcome expectancy:
- c) The individual's expectancy regarding being able to attain the role, i.e. role expectancy.e.g. perceived

Socio-Econ-Status PREFERENCES INDIVIDUAL Education OUTCOME Development Conditions ROLE OUTCOMES Working .g. . Pay • Skill PERCEIVED CHANCES **OUTCOMES GIVEN** VARIOUS ROLES **Group Climate** OF ATTAINING Leadership • Practices Job-Task **Policies** MARINE ROLE(S) CIVILIAN ROLE(S) • Education • Economy PERCEIVED CHANCES · Ability OF ATTAINING, RETAINING ROLE • To Stay • To Be Effective "MOTIVATION" INDIVIDUAL o Leave To Join

ENERALIZED MODEL OF MARINE ROLE ATTRACTION

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chances of finding an acceptable civilian role or perceived chances of being a "successful" Marine.

As will be described in the measures section of this report these variables can be combined in various ways to generate, for each individual, role attraction indices for both civilian and Marine roles. The individual variables and the various composite role attraction indices are then evaluated in terms of their relation to attrition.

Since the model is a choice model, it is important to assess the individual's perceptions of both the Marine role and alternative (civilian) roles. (See Schneider, 1976 for a discussion of this important point.) An individual's withdrawl from the Marine Corps may be related to more than simply his perception and evaluation of the Marine Corps. It also may be related to his perception and evaluation of the desirability and availability of alternatives.

Individual level variables such as education, age, mental grade, etc., have been shown to be related to pre-EAOS attrition (Mattews, 1977; Lockman, 1975; Sands, 1976). In the present research program, such individual level variables as age, education, mental grade, and marital status will be analyzed in terms of their relation to; values, expectancies, and role attraction; changes in values, expectancies, and role attraction; perceived organizational variables; and to attrition either directly or in combination with other individual and organizational variables.

Based in part on the Porter and Steers (1973) review of variables related to withdrawal(attrition) behavior, the study

includes measures of leadership, job content, and group climate. These organziation variables, as perceived by the individual, are assessed in terms of their direct relationship to attrition and as they are related to the various components of the role choice model.

It is assumed that outcome values, role-outcome expectancies, and role expectancies are learned and are modified by experience. One advantage of the longitudinal design is that it affords the opportunity to track the <u>learning-socialization process</u> as it affects these and other variables and as this process relates to attrition.

Summarizing the basic role model:

- a) It is a choice model which considers perceptions and evaluations of both Marine roles and alternative civilian roles:
- b) It considers both individual and organizational variables:
- c) Combined with a longitudinal design, it permits assessment of the learning-socialization process.

It is believed that use of this conceptual model will contribute not only to <u>prediction</u> of attrition from individual and organizational variables, but also to the <u>understanding</u> of the attrition process.

## The Present Report

Following a description of the measures, sample, and procedures, the present report focuses on pre-recruit training

values, expectancies, and behavioral intentions of new Marine recruits. The following questions are of primary concern in this report:

- 1) What work role outcomes do new recruits <u>value?</u>
  What rewards, conditions, consequenses do new recruits consider desirable or undesirable?
- 2) What are new recruits' role-outcome expectancies?
  - a) What are new recruits expectancies of attaining the various outcomes by being in a <a href="Marine role">Marine role</a>?
  - b) What are new recruits' expectancies of attaining the various outcomes if they were in a civilian role?
- 3) What are new recruits' role expectancies?
  - a) What are new recruits' perceived chances of being a "successful" Marine, e.g. completing their enlistment?
  - b) What are new recruits' perceived chances of finding an acceptable civilian job right now if that were their goal?
- 4) What are new recruit's expectations regarding
  - a) Leadership;
  - b) Job content:
  - c) Group climate?
- 5) How do individual variables such as education, race, age, etc. relate to questions one for five?
- 6) What are new recruits' <u>intentions</u> with respect to:
  - a) Completing their enlistment;
  - b) Reenlistment?

7) What are the correlates of the new recruits intentions to complete and to reenlist?

## Basic Design

The basic longitudinal design is summarized in Figure 2. Survey measures are administered at the beginning of basic recruit training, again at the end of recruit training, near the end of advanced training, on subsequent duty station, or at the time of attrition.

The portion of the longitudinal study reported here deals with the Phase I, or pre-recruit training, measure administered at the beginning of recruit training.

## Sample

The longitudinal (tracking) sample is composed of Parris Island male first-term enlisted accessions. The pre-recruit training measure was administered to new recruits from August 7 to August 28, 1976. Of the 2,006 who took the measure, 1,960 provided useable responses. The use of a single month's accessions from one recruit training depot raises potential constraints on generalizability. This issue will be discussed in the results and discussion sections of this paper.

## Measures

The measures being used in this study are summarized in Figure 3. The individual level variables of age, mental, education, race, marital status, and number of dependents were collected from the RAMS computer file.

The component measures of the role choice model were collected via survey. These components include the following:

(a) Enlisted personnel were presented a list of 50 role outcomes and asked to rate them on a +2 to -2 scale of desirability—undesirability. The role outcomes, generated from previous research, interviews, and pilot tests, include such things as

# **MEASURES**



# INDIVIDUAL

- AGE
- MENTAL GRADE
- EDUCATION
- RACE
- DEPENDENTS
- ROLE ATTRACTION MARINE
- ROLE ATTRACTION-CIVILIAN

# LEADERSHIP (LBDQ)

ORGANIZATIONAL

- CONSIDERATION
- STRUCTURE
- **HOMOGENEITY** GROUP (GDDQ)
- PERMEABILITY
- STABILITY
- HEDONIC TONE
  - PLUS 9 OTHER DIMENSIONS
    - JOB (JDS)
- TASK SIGNIFICAL SKILL VARIETY
  - FEEDBACK
  - PLUS 7 OTHER

DIMENSIONS

CRITERIA

- INTENTIONS
- RIT-EXLISTMENT · EAOS
- PRE—EAOS ATTRITION - ADMINISTRATIVE

REASONS

- SELF-REPORT REASONS
  - PERFORMANCE
- SELF-REPORT
- MASTER FILE Individual Recruit Training Performance

"learning career skills," "separation from family," "responsibility," etc. The term "outcome" refers to rewards, costs, and conditions possibly associated with a job or role.

(b) Role-outcome expectancies: Marine: for each of the 50 role role outcomes, enlisted personnel were asked to rate, on a scale of 0 to 1.0, their chances of attaining that outcome by being a Marine.

Role-outcome expectancies: Civilian: for each of the 50 role outcomes, enlisted personnel were asked to rate, on a scale of 0 to 1.0, their chances of attaining that outcome by being in a civilian job.

- (d) Role-expectancy: Marine: enlisted personnel were asked to rate their chances of successfully completing their first term enlistment, on a scale of 0 to 1.0.
- (e) Role-expectancy: Civilian: enlisted personnel were asked to rate their chances of finding an acceptable civilian job right now if that were their goal, on a scale of 0 to 1.0.

Based on these component ratings, several composite index variables were generated for each individual.

- (f) Role attraction: Marine: is the sum of the cross-products of the 50 role outcome and Marine role-outcome expectancy ratings.
- (g) Role attraction: Civilian: is the sum of the cross products of the 50 role outcome and civilian role-outcome expectancy ratings.
- (h) Role Force: Marine: is the Marine role attraction index weighted by expectancy of successfully completing the first term enlistment.
- (i) Role Force: Civilian: is the civilian role attraction index weighted by expectancy of finding an acceptable civilian job.

(A number of other summation, discrepancy, and/or multiplicative composite indices may be generated. The utility of alternative indices will be evaluated in subsequent methodological and conceptual reports.)

The organizational level variables, as perceived by enlisted personnel, were assessed with standardized survey measures. The Leader Behavior Description Questionnaire (Stogdill and Coons, 1957) assesses perceived leader "Consideration" and "Initiating Structure." The Group Dimension Description Questionnaire (Hemphill, 1956) assesses 13 dimensions of groups including such things as homogeneity, stability, and hedonic tone. Two

group sociometric measures, attraction and proficiency (Libo, 1953), also were included. The short version of Job Diagnostic Survey (Hackman and Oldham, 1974, 1975) assesses various dimensions of job content, e.g. skill variety, task significance, feedback, etc. This measure also includes job satisfaction scales and individual level measures of interanl motivation and growth need. A complete list and definitions of the dimensions of the organizational measures are given in Appendix I.

For the pre-recruit training administration of the survey measures, personnel were instructed to respond to the leadership, group, and job content measures in terms of what they expected. Subsequent administrations called for a descriptive rather than expected response set.

Criteria data collected via survey included behavioral intentions to complete first term enlistment, behavioral intentions to reenlist, performance goals, and in the case of attrites, self-report ratings of reasons for their attrition. Criteria data being collected from the HMC master file include administrative reasons for attrition and re-cycle information.

## Procedure

The measures were given two pilot tests: the first using enlisted personnel assigned to the University NROTC unit; the second using a platoon of July, 1976 Parris Island recruits. Based on the pilot tests, the instructions were clarified, ambiguous items were clarified or deleted, minimal variance items were deleted, and several new questions were added based on suggestions of pilot study subjects.

The pre-recruit training measures were administered as a part of administrative processing during the first few days after arrival at the recruit depot. The survey was administered by the University researchers

to groups of three platoons at a time. Recruits were read the approporiate freedom of information passage (which was also included in the survey booklet); informed that participation was voluntary; and that individual responses were confidential. Survey responses were made on machine readable answer sheets. ID numbers were requested for the purpose of matching subsequent administrations of the survey and matching with the RAMS and master file. All officers, NCO's and DI's remained out of the room during administration of the survey.

## RESULTS

## Sample Composition

Table 1 presents a summary of the demographic characteristics of the August, 1976 Parris Island accessions serving as the longitudinal sample. The sample means were compared with the means for the previous year's Marine Corps accessions. Due to the very large sample sizes, several relatively small mean differences were statistically significant. As can be seen in Table 1, the longitudinal sample was slightly younger, and was more likely to have completed high school. There were non-significant differences in AFQT, number of dependents and percentage minority.

The fact that the tracking sample had a substantially higher percentage of high school graduates than the previous year's accessions could pose generalizability problems. However, the Marine Corps has a current recruiting goal of 75% high school graduates. Thus, the 74% high school graduate representation in the sample could be more representative of the coming year than the past year.

TABLE I
DEMOGRAPHIC COMPARISONS BETWEEN PARRIS ISLAND TRACKING
SAMPLE AND PREVIOUS YEAR MARINE CORPS ACCESSIONS

	(a Tracking Parris	Sample	(b) Marine ( Access Previous	ions,	
Variable	Mean	SD	Mean	SD	(a vs b)
Age	18.89	1.45	19.00	1.81	t * 2.21*
Dependents	0.06	0.27	0.08	0.32	t = 1.30
Mental (AFQT)	60.28	19.12	59.98	18.19	t = 0.61
% High School Graduate	74	%	6	3%	z = 8.39**
% Minority	23	%	2	1%	z = 1.80
N	1,3	96	41,	248	

\* p < .05 two tailed \*\* p < .01 two tailed

Source:

RAMS File Printout A-10

## Reliability of the Organizational Measures

The internal consistency reliability estimates for the various organizational variables are summarized in Table 2. The estimates are based on the Spearman-Brown reliability formula (Guilford, 1965). While the leadership dimensions exhibited fairly high internal consistency, a number of the job content and group dimensions exhibited low internal consistency. This may be due, in part, to the low variance in some items and to the fact that the new recruits were responding from an "expected" rather than descriptive response set.

To the extent the internal consistency reliability estimates are low due to heterogeneous item content, the sub-score dimension labels may be misleading. Comparison of the reliability estimates from this phase of the study and subsequent phases of the study should help clarify interpretation of the internal consistency results.

The role attraction measures are based on a list of 50 outcomes (rewards, costs, conditions, etc). The outcomes were selected on the basis of previous research (e.g. Goodstadt and Glickman, 1975), interviews with recruits, and two pilot tests. Although the outcomes will be analyzed individually and in overall summary variables, it is useful to know the factors or dimensions represented in the 50 outcomes. Table 3 summarizes a factor analysis of the outcomes as rated for desirability-undesirability by the new recuits. Eight factors, accounting for 51% of the total variance, were identified. The factors were: self-control; structure; benefits; learning-rewards; travel; job content; physical danger; and leader. In subsequent reports, the stability of this factor structure over time and experience in the Marine Corps will be assessed.

TABLE 2

RELIABILITY ESTIMATES FOR THE PRE-RECRUIT TRAINING ADMINISTRATION OF THE ORGANIZATIONAL MEASURES!

Measure	Reliability Estimate	Measure	Reliability Estimate
Leadership (LBDQ)		Group (GDDQ)	
Consideration	.83	Control	. 48
Initiating Structure	. 80	Stability	. 35
		Intimacy	. 31
Job Content (JDS)		Stratification	.23
Skill Variety	. 39	Hedonic Tone	. 37
Task Identity	. 35	Autonomy	.23
Task Significance	. 49	Potency	.51
Autonomy	. 50	Viscidity	.48
Feedback from Jub	. 45	Permeability	.05
Feedback from Others	. 56	Participation	.07
Dealing with Others	.43	Polarization	. 35
Internal Motivation <sup>2</sup>	.61	Flexibility	.47
Growth Need <sup>2</sup>	.73	Homogenei ty	. 59
		Sociometric	
		Attraction	.53
		Proficiency	. 55

 $<sup>^{\</sup>rm l}$  for the pre-recruit training administration, the organizational measures were completed with a "what do you expect it to be like" response set.

 $<sup>^2</sup>$ Individual difference measures from the JDS.

Table 3
SUMMARY OF FACTOR ANALYSIS OF PRE-RECRUIT TRAINING OUTCOME DESIRABILITY RATINGS\*

FACTOR I: SELF-CONTROL-EQUITY Fair treatment from supv44 Sufficient leisure time .56 Superior concerned about me .45 Control of own activities .72 Freedom to make own decisions .77 Control of own life .65 Flexible organization meets   my needs .48 Personal freedom .72 Organization keeps promises .46 Promotional opportunities .41	FACTOR II: STRUCTURE  Discipline enforced Job important to country Duties clearly defined Doing real man's job Well disciplined organi- zation Part of efficient organi- zation Physically demanding work Good leadership Working with people of other race Job where I can become a man	.47 .53 .43 .54 .60 .43 .45 .43	FACTOR III: BENEFITS Financial benefits .49 Job Security .47 Insurance, medical benefits .61
FACTOR IV: LEARNING-REWARDS  Part of effective team .50 Respect from friends,     relatives .44 Learning new skills .59 Exciting job .61 Job pays well .46 Learning career skills .40	FACTOR V: TRAVEL  Extensive travel See country and world	.66 .65	FACTOR VI: JOB CONTENT Little responsi- bility56 Repetitive job64
FACTOR VII: PHYSICAL DANGER  Dangerous job .55 Potential violence .62	FACTOR VIII: LEADER Consistent leader Qualified leader	.48 .43	

<sup>\*</sup>Varimax rotated factor loadings (.xx)

Source: August, 1976 Parris Island Accessions, N=1960, Printout A-5.

# Pre-Recruit Training Role Outcome Desirability and Role Outcome Expectancy Ratings

The attraction of a work role, be it military or civilian, is thought to be a function of the extent to which the work role is seen by incumbents, or possible incumbents, as associated with the attainment of desired outcomes and not undesirable outcomes. If this is so, it is necessary to ask several questions of incumbents or possible incumbents, in this case new recruits. Specifically, what outcomes (rewards, costs, conditions) do new recruits consider desirable or undesirable in a work role? What are new recruits perceived changes (role-outcome expectancies) of attaining the outcomes by being a Marine or by being in a civilian work role. Data bearing on these questions are presented in Table 4.

It is instructive to look at the outcomes which have the highest and lowest average desirability ratings. Among the work role outcomes with the <a href="https://doi.org/10.1001/journal.com/">https://doi.org/10.1001/journal.com/</a> were:

Learning skills that will help me later in life
Insurance and medical benefits
Job which gives me pride in myself
Job which pays well
Good financial benefits
Organization that fulfills its promises
An exciting job
Job where good performance is recognized

# MEAN ROLE OUTCOME AND ROLE EXPECTANCY RATINGS FOR PRE-RECRUIT TRAINING MARINE RECRUITS

Phase I

	Outcomes	Outcom	me Decirat	ility (1)	Chance Attair Marine Mean	ment (2)		
1.	Being part of an effective team	12	1.40	.84	.87	.21	.58	.30
2.	Respect from friends and relatives	11	1.41	.81	.86	.21	.68	.27
3.	Learning new skills	7	1.44	.77"	. 86	.20	.63	.28
4.	Having an exciting job	8	1.44	.84	.75	.25	.57	.30
5.	Maving a dangerous job	43	- 0.03	1.10	.60	.30	.44	.31
6.	Being in a job where discipline is strictly enforced	42	0.03	1.08	.78	<b>. 28</b>	.47	.31
7.	A job that pays well	4	1.55	.81	.72	.26	.61	.29
8.	Long separations from home and family	49	- 0.93	1.00	.61	.32	.28	.32
9.	A job that is important to the country	37	0.92	.90	.79	. 26	.46	.34
0.	Pair treatment from superiors	16	1.32	•93.	.63	.29	.60	.30
1.	Working with people I like	15	1.35	.86	.67	.25	.65	.27
2.	A job where good performance is recognised	9	1.42	.82	.74	.26	.45	.28
3.	A job that includes extensive travel	40	.53	1.14	.66	.27	.37	.31
4.	A job where duties and orders are clearly defined	35	. 98	.88	.81	.23	.62	.28
5.	A job which gives me pride in myself	3	1.59	.78	.84	.23	. 62	.31
6.	A job where poor performance is penalized	41	. 27	1.08	.75	.31	.53	.31
7.	Sufficient leisure time to pursue your own interests	22	1.26	1.03	. 54	.30	.68	.29
В,	A job with little respon- sibility	46	- 0.59	1.05	.31	.29	.46	.29
9.	Superiors who are concerned about we as an individual	25	1.21	. 92	.60	.31	.55	.30
0.	Learning skills that will help me in later life	1	1.67	0.71	. 80	. 24	.59	.31
ı.	Good financial benefits	5	1.55	. 19	.77	.25	. 38	.30
2.	Being in control of your own activities	29	1.14	0.91	.50	.31	. 63	.30
3.	Freedom to make your own decisions	28	1.14	0.96	.48	. 32	. 62	.31

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Pha	me I (Con't)				Chance: Attains		Chance: Attains	
		Outcor	ne Desirabil	lity	Marine	!	Civilia	ın
		Rank	Mean	SD	Mean	SD	Mean	SD
24.	Doing a real man's job	19	1.27	. 80	.79	. 24	. 62	. 28
725.	Being part of a well- disciplined organization	34	1.07	.94	.87	.21	. 52	. 32
26.	Being part of an effi- cient organisation	24	1.23	.86	. 85	.23	.60	. 29
27.	Physically demanding work	39	0.56	.93	.74	.25	.59	. 28
28.	Specific kinds of training I want	26	1.18	.84	. 66	.27	. 51	.31
29.	Work under good leadership	14	1.35	.79	.79	. 23	. 62	. 28
30.	Working closely with people of another race	36	.58	.90	.78	. 24	, 59	. 29
31.	Being in control of your own life	10	1.41	.91	.55	. 34	, 72	. 30
32.	A high degree of job security	21	1.26	.89	.76	. 25	.54	.30
. 33.	Good insurance and	2	1.57	.77	.87	.21	.56	. 32
34.	Interferes with marriage/ family plans	50	-1.02 ·	1.51	. 54	.33	.33	.31
35.	enough to meet my changing	36	. 95	.92	.50	.31	.51	.30
36.	ned; Eaving clear work goals	33	1.09	.82	.73	.25	.61	.28
37.	\ high degree of personal freedom	30	1.12	.93	.48	.32	.65	.29
38.	A job where you can "get your head together"	20	1.26	<b>,9</b> 0	.69	. 28	. 58	.29
39.	A job where I can become a	23	1.24	.87	.80	. 24	.58	.30
40.	Getting away from a bad home situation	44	-0.11	1.23	. 53	.37	.38	. 31
41.	A job involving poten: ial physical violence	45	-0.20	1.18	.61	.32	.37	31
42	Training opportunities that will contribute to my long term career plans	17	1.28	.86	.74	. 26	.54	.31
43	A chance to see different' parts of the country or the world	27	1.16	98	.74	. 26	.40	.34
44	. Making a lot of new friends	32	1.12	,86	,80	,24	.61	,29
45	. An organisation that ful- fills its promises to you	6	1,47	.85	,69	,28	. 58	. 29
46	. Maving a leader who is consistent	31	1,12	.91	,77	,24	,60	,28
					1		1	

.

Pha	se I (Con't)	Outco	ne Desirabi	lity	Chance Attain Mari	ment	Chance Attain Civil	ment
		Rank	Mean	S <sub>D</sub>	Mean	SD	Mean	SD
47.	Working closely with people who use drugs	48	93	1.14	.29	.29	.45	.32
18.	Maving a leader who is well qualified	13	1,39	.82	.82	.23	. 65	.27
19.	A repetitive job with little responsibility	47	65	1.10	. 37	.30	.47	. 29
<b>50</b> .	Rapid promotional opportunities	18	1.27	.87	. 59	. 28	.49	.29

## CODING NOTE:

- (1) Outcome Desirability Scale: -2.0 = very undesirable to 2.0 = very desirable .
- (2) Outcome Expectancy Scale: O-No change of attainment to 1.0 = 100% change of attainment.

Max N = 1,960 New Recruits

Source: O.N.R./U.S.C. Phase I Data

August 1976 Parris Island Accessions

Printout A - 1

Being part of an effective team.

Being in control of own life.

Respect from friends and relatives.

The lowest (least desirable) mean outcome desirability ratings included:

Job interferes with marriage-family plans

Long separations from home and family

Having co-workers who use drugs

Job with little responsibility

Among the outcomes with more neutral mean desirability ratings were:

A job that includes extensive travel

A dangerous job

A job that is important to the country

When the outcome desirability ratings were subdivided by high school graduates versus non-graduates a number of significant differences were observed. Table 5 summarizes these differences. As can be seen, high school graduates placed significantly more value on having a concerned and consistent leader, personal freedom, flexible organization, career training, and rapid promotional opportunities. They placed less value on (considered more undesirable) working with people who use drugs and repetitive jobs with little responsibility.

The statistically significant differences in outcome desirability ratings subdivided by race are given in Table 6. Among the findings evident in that Table are: minorities placed more value that did whites on learning new skills, being part of a vell disciplined organization, seeing different parts of the country and world, and working with people of another race. The whites, when contrasted to the minorities, placed more value on fair treatment from supervisor, working with people I

TABLE 5
Differences In Outcome Desirability Ratings As A Function of Education

	Me	an <sup>1</sup>	
Outcome	H.S. Grad	Non-Grad	t
Supervisor concerned about me as an individual	1.27	1.09	3.12**
Physically demanding work	.60	.47	2.10*
Organization flexible enough to meet my changing needs	1.00	.88	2.11*
High degree of personal freedom	1.16	1.03	2.63**
Getting away from a bad home situation	18	03	-1.97*
Training taht will contribute to my long term career plan	1.38	1.24	2.54*
A leader who is consistent	1.22	1.07	2.75**
Working closely with people who use drugs	-1.05	-0.79	-3.65**
Repetitive job with little responsibility	-0.77	-0.52	. 3.59**
Rapid promotional opportunities	1.34	1.23	2.06*

Source: August, 1976 Parris Island Accessions Printout A-39

TABLE 6
Differences in Outcome Desirability Ratings As A Function of Race

		an	
Outcome	Minority	<u>White</u>	t
Respect from friends and			
relatives	1.34	1.46	-2.38*
Learning New skills	1,55	1.46	1,98*
Dangerous job	-0,36	0.09	-6.43**
Discipline strictly	-100	****	••••
enforced	0.27	0.00	3.85**
Long separations from home	<b>714</b>	****	0,00
and family	-0,82	-1.04	3.54**
Job that is important to	-0,02	-4407	0107
country	0.83	0.95	-2.08*
Fair treatment from	0,05	0.30	~2.00"
supervisors	1.25	1 41	0 60++
	1,65	1.41	-2.68**
Working with people I like	1 00	1 40	A 1044
	1.20	1.42	-4.12**
Extensive travel	0.74	1.14	3.78**
Control of own activities	1.02	1.20	-3, 02**
Freedom to make own		4.44	
decisions	1.03	1.20	-2.68**
Part of well disciplined			
organization	1.23	1.08	2.40*
Physically demanding work	0.43	0.60	-2.88**
Specific training I want	1.07	1.22	-2.69
Working with people of			
another race	0.90	0.50	6.84**
Interferes with marriage/			
family plans	-0.83	-1.17	4.63**
Physical violence	-0.37	-0.17	-2.56**
See country and world	1.32	1.14	2.75**
Organization keeps its		****	E170
promises	1.42	1.55	-2.41*
Rapid promotional	4,76	1.55	-6.41.
opportunities	1.20	1.34	-2.45*
Abbat call c 142	1.50	1.34	-6,40"

Source: August, 1976 Parris Island Accessions Printout A-34

The state of the s

<sup>\*</sup> P < .05

<sup>\*\*</sup> P < .01

<sup>1.</sup> Scale goes from -2.0 (very undesirable) to +2.0 (very desirable)

like, freedom to make own decisions, control of own activities, and rapid promotional opportunities.

Knowledge of what outcomes recruits (and possible recruits) consider desirable and undesirable should be of value in recruiting, counseling, and selection (Schneider, 1976). However, it is also necessary to know the individuals! perceived chances of attaining the various outcomes in military or civilian roles. Such role-outcome expectances for the total pre-recruit training sample are included in Table 4. For each of the outcomes having the highest mean desirability ratings, the new recruits saw a higher chance of attainment by being in a Marine role rather than in a civilian role. However, for several of the outcomes considered undersirable (e.g. interferes with marriage and family plans, long separations from home and family) the new recruits saw a higher chance of occurance by being in a Marine role rather than in a civilian role. This, of course, detracts from the relative attraction of the Marine role.

The role-outcome expectancies which were significantly different for high school graduates versus non-graduates are summarized in Table 7. In the Marine role, the high school graduates saw a higher chance than did the non-graduates of: being part of an effective team, long separations from home and family, and potential physical violence. The graduates saw a lower chance than did the non-graduates of: having a job that pays well, freedom to make own decisions, being part of a flexible organization and having a high degree of personal freedom. Differences in expectancies regarding the civilian role also are included in Table 7.

When the role-outcome expectancies were subdivided by race, a great many statistically significant differences were observed. Table 8 summarizes these results. Among the larger differences for the Marine role were:

TABLE 7
MARINE AND CIVILIAN ROLE OUTCOME EXPECTANCIES SUBDIVIDED BY EDUCATION

Outcome	H.S. Grad	Marine F Non-Grad			vilian Role i Non-Grad	t
Part of an effective team	.89	. 85	2.54*	. 56	.60	ns
Respect from friends and relatives	.87	.88	ns	.67	.70	-1.97*
Dangerous job	.60	.60	ns	. 42	.50	-3.81*1
Discipline strictly enforced	.80	.77	ns	.45	.50	-2.49*
Job that pays well	.71	.75	-2.30*	.60	. 62	ns
Long separation from home & family	. 63	. 58	2.19*	.24	.31	-3.20*1
Extensive travel	. 66	.66	ns	.33	.39	-3,41**
Freedom to make own decisions	.46	.50	-2.17*	. 62	.60	ns
Interferes with marriage/ family plans	. 53	. 55	ns	.29	. 35	-3.42**
Flexible organization	. 49	. 54	-2.38*	.51	.51	ns
High degree of personal freedom	. 47	.51	-2.19*	.65	.65	ns
Physical violence	.63	. 57	2.74*	.36	.39	ns
See different parts of country & world	.75	.74	ns	.36	.41	2.35*
Working closely with people who use drugs	.27	.30	ns	.44	. 48	1.96*

# F. ...

SOURCE: August, 1976 Parris Island Accessions. Printout A-39.

<sup>&#</sup>x27;\* p< .05
\*\* p< .01
\_ Scale goes from 0 (no change) to 1.0 (certain)</pre>

TABLE 8
MARINE AND CIVILIAN ROLE-OUTCOME EXPECTANCIES SUBDIVIDED
BY RACE

Outcomes	Me Minority	rine Role White	t	C: Minority	vilian Role / White	t
Being part of an affective team	.84	. 89	-3.41**	. 62	. 58	3.07**
Respect from friends and relatives	.84	.88	-2.70**	.73	. 66	3.61**
Learning new skills	.88	.86	ns	. 67	.61	3.13**
Having an exciting job	.77	.76	ns	. 62	. 55	3.52**
Having a dangerous job	. 57	.61	-2.05**	. 42	.44	ns
Being in a job where discipline is strictly enforced	.76	.80	-2.63**	.50	.45	2.67**
A job that pays well	.75	.71	2.38*	.65	. 59	2.95**
Long separations from home and family	. 57	.63	2.75**	.33	.24	4.47**
A job that is important to the country	.77	.81	-2.21*	.49	.43	2.61**
Fair treatment from superiors	.68	.64	1.98*	. 59	.61	ns
A job where good perfor- mance is recongnized	.78	.73	2.57**	. 66	.65	ns
A job that includes extensive travel	.69	.65	2.51*	.44	.31	6.4 <b>9</b> **
A job where duties and orders are clearly defined	.81	.82	n•	.68	.61	2.36*
A job which gives me pride in myself	.83	.86	ns	.68	.61	2,28*
A job where poor perfor- mance is penalized	.66	.78	-6.77**	.53	. 63	ns
Sufficient leisure time to pursue your own interests	.56	. 64	ns	.65	. 69	-2.41*
A job with little respon- sibility .	.32	. 30	ns .	.42	.47	-2.25*
Learning skills that will help me in later life	.84	.81	2.16*	.64	. 57	3.42**
Good financial benefits	.80	.78	ns	. 62	. 56	2.97**
Being in control of your own activities	. 55	.49	3,13**	.62	.63	ns
Freedom to make your own decisions	, 54	.45	4.33**	.60	.62	ns

Table 8 (Con't)		Marine Rol	•	Civilian Role			
	Minority	White	t	Minority	White		
Doing a real man's job	. 82	.80	ns	.65	.61	2.23*	
Being part of a well- disciplined organization	.87	.90	-2.14*	.58	. 50	4.15**	
Being part of an effi- cient organization	. 84	.87	-2.32*	.63	. 59	1.99*	
Physically demanding work	.71	.76	-2.84**	. 59	.60	ns	
Specific kinds of training I want	.67	. 67	ns	.56	.49	3.52**	
Work under good leadership	.81	.80	n.	. 67	. 62	2.70**	
Working closely with people of another race	.81	.78	ns	.66	. 67	4.92**	
Being in control of your own life	.62	. 62	4.19**	.71	.73	ns	
A high degree of job security	.75	.77	ns	.58	.53	2.55**	
Good insurance and medical benefits	.87	.89	, ns	, 62	. 53	3.99**	
Interferes with merriage/ family plans	.50	.55	-2.29*	.32	.30	ns	
An organization flexible enough to meet my changing needs.	.59	.47	5,88**	, 53	, 50	ns	
A high degree of personal freedom	.54	.45	3,98**	<b>.</b> 65 .	.65	ns	
A job where you can "get your head together"	.74	. 69	2.43**	.62	. 57	2.61**	
A job where I can become a real man	,82	.81	ns	.63	. 67	3.13**	
Getting away from a bad home situation	. 50	. 54	ns .	.41	.36	2.58**	
A job involving potential physical violence	. 55	. 63	-3.87**	.39	.36	ns	
Training opportunities that will contribute to my long term career plans	.77	.76	ns	. 59	. 53	3.18**	
A chance to see different parts of the country or the world	,77	,74	ns .	.47	.35	5.71**	
An organization that ful- fills its promises to you	.73	. 69	2.06*	.59	. 58	ns	
Working closely with people who use drugs	.24	.29	-2.46*	. 39	.46	-3.12**	
A repetitive job with	. 38	. 36	Ns.	.41	.48	-3.26**	

Source: August 1976 Parris Island Accessions, Printout A-34

<sup>#</sup> p<.05
## p<.01
Scale goes from 0 (no chance) to 1.0 (certain)</pre>

whites, compared to minorities, saw a higher chance of being part of an effective team, of having poor performance penalized, and having a job involving potential physical violence. Compared to minorities, the whites show a lower chance of being in control of their own activities, freedom to make their own decisions, the organization being flexible enough to meet their changing needs.

It is important to note that the role-outcome expectancies for the Marine Role are based on other than experience. In subsequent reports, the "accuracy" of these pre-recruit training expectations and changes in these expectations will be analyzed and related to attrition.

## Role Expectancies and Behavioral Intentions

To this point, the analysis has focused on the desirability of various outcomes and the role-outcome expectancies, i.e. the perceived chances of attaining the various outcomes by being in a Marine Role or in a civilian role. Attention is now turned to: role expectancies, i.e. perceived chances of successfully completing the first term and chances of finding an acceptable civilian job. Also analyzed are new recruits behavioral intentions regarding completing their enlistment and reenlisting.

Table 9 summarizes pre-recruit training expectations regarding chances of successfully completing the first term enlistment and chances of finding an acceptable civilian job. Some 83% of the new recruits see a greater than 50-50 chance of being able to successfully complete their first term enlistment. Only 42% saw a greater than 50-50 chance of being able to find an acceptable civilian job. Later we will want to assess the extent to which these two role expectancy variables are related to behavioral intentions and actual withdrawal behavior.

Also included in Table 9 are summaries of the pre-recruit training

PRE-RECRUTT TRAINING ROLE EXPECTANCIES
AND BEHAVIORAL INTENTIONS

Variable	*	Moan	SD
Marine Role Expectancy (Perceived chances of successfully completing first term enlistment)		. 85	. 23
Less then 50-50 chance	5%		
50-50 chance	12%		
Greatur than 50-50 chance	83%		
Civilian Role Expectancy (Perceived chances of finding an acceptable civilian job) 1		. 54	. 33
Loss than 50-50 chance	35%		
50- 50   chane <b>c</b>	23%		
Greater than 50-50 chance	42%		
Behavioral Egiention to Complete First Term			
Enlistment <sup>2</sup>		4.30	1.02
No	8%		
Undertain	12%		
Yes	80%		
Behavioral Intention To Reenlist <sup>2</sup>		2.99	1.07
No	25%		
Uncertain	47%		
Yes	28%		

Source: August, 1976 Parris Island Accessions, Max N = 1,960, Printout A-1

<sup>&</sup>lt;sup>1</sup>Scale goes from 0 (no chance) to 1.0 (certain) Scale goes from 1 (definitely not) to 5.0 (definitely yes)

behavioral intentions to complete the first term enlistment and intentions to reenlist. It is well to note that 80% of the new recruits say they intend to complete their first term enlistment. Some eight percent do not intend to complete and 12% are uncertain. Turning to intentions to reenlist, 28% of the new recruits say they intend to reenlist.

Subsequently, we will be analyzing the correlates of both types of intentions, how these intentions change as a function of time and experience in the Marine Corps, and how these intentions relate to actual withdrawal behavior. There is evidence in the literature (see e.g. Kraut, 1975; Locke, 1975; Mobley, 1977) that intentions are predictors of subsequent behavior.

## Role Attraction Indices

Based on the outcome desirability, role-outcome expectancy, and role expectancy ratings, it is possible to generate various composite indices for each individual. Role attraction is the sum of the 50 cross products of outcome desirability and role-outcome expectancy. A role attraction index is computed for both the Marine and civilian roles. Role force is the role attraction index weighted by role expectancy.

Table 10 summarizes the means for these indicies.

Table 10
Marine and Civilian Role Attraction Indices for Pre-Recruit Training Enlistees

	Marine Mean	Role SD	Civilia Mean	n Role SD	t
Role Attraction	37.26	18.36	29.16	16.97	**
Role Force	32.46	19.35	16.51	15.88	**

<sup>\*\*</sup>p < .01 Source: August, 1976 Parris Island Accessions.
Printout A-1.

As might be expected from new recruits, the Marine role had a significantly higher attraction and role force index than did the civilian role. Later in this report, these variables will be related to behavioral intentions. In subsequent reports, these variables and changes in these variables will be related to actual attrition.

# Education and Race Differences in Intentions, Individual and Organizational Variables

Differences in outcome desirability and role-outcome expectancies as a function of race and education were presented earlier. Table 11 summarizes the statistically significant differences in demographic, intention, role attraction, and organizational variables by education and race. As can be seen, minorities compared to whites were significantly older, had lower AFQT scores but did not differ on education, had a higher intention reenlist, a lower expectancy of completing and a lower expectancy of finding a civilian job. The minorities expected higher leader consideration, lower leader structure, and expected more autonomy than did the whites.

Turning to education, significantly more of the non-high school graduates were married, the non-graduates had a lower intention to complete, expected less leader structure, and were lower on internal motivation when compared to the high school graduates.

# Individual and Organizational Correlates of Pre-Recruit Training Intentions to Complete First Term Enlistment

The analysis now turns to the relations between behavioral intentions and the individual and organizational variables. As noted earlier, previous research has shown these intentions can be a good predictor of subsequent withdrawal behavior (Kraut, 1975; Locke, 1975). Thus, it is important to analyze the correlates of intentions. Table 12 summarizes the correlations

TABLE 11 PRE-RECRUIT TRAINING MEASURES SUBDIVIDED BY RACE AND EDUCATION

ganganasan nga nggara nggara ng man gara na ganan ngangang makibi na na man na manan						
Variable	Minority	White	t	Non HS Grad	HS Grad	ţ
Education	11.76	11.69	ns	10.62	12.06	*
HS Grad	76% .	75%	ns			
Age	19.32	18.88	**	18.80	19.04	*
Mental	51.11	63.81	**	60.11	61.2 <b>7</b>	n
% Married	4%	4%	ns	<b>6%</b>	3%	*
% White	٠,	•		79%	. 77%	n
Intend to complete	4.34	4.36	, n <b>s</b>	4.24	4.39	*
Intend to reenlist	3.18	2.94	**	3.04	2.98	n
Expectancy of completing Enlistment	. 82	. 86	*	. 83	. 85	n
Expectancy of Finding Civilian job	. 49	. 56	**	. 54	. 54	n
Role Attraction: Marine	38.41	37.93	ns	37.57	38.18	n
Role Attraction: Civilian	30.10	29.59	ns	29.35	29.81 ·	n
Role Force: Marine	32.62	33.47	, ns	32.30	33.60	· n
Role Force: Civilian	14.76	17.74	**	16.67	17.22	n
Leader Consideration	46.66	42.36	**	42.92	43.34	n
Leader Structure	62.39	65.01	**	63.22	64.86	*
Autonomy	2.70	2.48	**	2.52	2.53	n
Internal Motivation	3.84	3.9 <b>3</b>	ns	3.79	3.95	*
Growth Need	3.81	3 . 85	ns	3.80	3.86	'n

Source: Parris Island August 1976 Accessions. Printouts A-34, A-39.

<sup>\*</sup> p < .05 \*\* p < .01

Table 12

# PRE-RECRUIT TRAINING CORRELATES OF INTENTION TO COMPLETE FIRST TERM ENLISTMENT

Variable	Correlation	Variable	Correlation	
nographic		Job Content		
	1	Skill Variety	.11**	
Marital Status	.01	Task Identity	10**	
	02	Task Signigicance	17**	
Number Dependents			.09**	
Age	.01	Autonomy		
Education	.08**	Feedback From Job	.15**	
Mental	.13**	Feedback From Others	.10**	
		Dealing With Others	.14**	
le Attraction		Internal Motivation	.28**	
		Growth Need	.16**	
Sum Outcome Desirabil	ity			
Rating	.27**	Group		
Sum Outcome Expectanc	•	<del>بطنة يستمانية ،</del>		
. Marine	.32**	Control	05*	
Sum Positive Outcome	. 100	Stability	10**	
Expectancies-Negative		Intimacy	.07**	
	.29**	Stratification	03	
Marine		Hedonic Fone	.10**	
Sum Outcome Exceptanc	08**		.07**	
Civilian	~.08~~	Autonomy	.13**	
Sum Positive Outcome		Potency	.12**	
Expectancies-Negative	:	Viscidity		
Civilian	01	Permeability	-:11**	
Role Attraction: Mari	ne .30**	Participation	.09**	
Role Attraction: Civi		Polarization	.07**	
Expectancy of Complet	ing	Flexibility	08**	
First Term	.43**	Homogenei ty	<b>~.</b> 05 <b>*</b>	
Expectancy of Finding				
Civilian Job	17**	Sociometric		
Force: Marine Role	.38**	Attraction	. 15**	
Force: Civilian Role	04	Proficiency	.12**	
Difference in Force:	- 1 🗸 🔻	, , , , , , , , , , , , , , , , , , , ,	* *=	
Marine-Civilian	.36**			
Difference in Attract				
	.28**			
Marine-Civilian				
Difference in Expecta	ncy:	}		
Marine-Civilian	.20**			
adership				
Consideration	.13**			
Initiating Structure	.21**	1		

Source: August 1976 Parris Island Accessions.

Max N=1960, Printout A-11.

\* p < 05

\*\* p < 01

between the various pre-recruit training measures and behavioral intentions to complete the first term enlistment. Of the demographic variables, only education and mental scores were significant.

A number of the role attraction indexes were significantly and fairly strongly related to intention to complete the first term enlistment. Perceived chances of successfully completing the enlistment (Marine role expectancy) was the strongest single correlate of intention to complete (r=.43). Marine role attraction (r=.30); Marine role force, role attraction weighted by role expectancy (r=.38); and the difference in Marine role force and civilian role force (r=.36), also were among the stronger correlations.

Both dimensions of the expected leader behavior measure were significantly related to intention to complete. Expected leader structure was the stronger correlate (r = .21).

On the job content scale, expected task significance and feedback from the job were the highest correlates. The individual level dimensions from this scale, growth need (r = .16) and particularly internal motivation (r = .28) exhibited moderate correlations with intention to complete.

Most of the "expected" group and sociometric dimensions were significantly correlated with intentions but at rather modest levels.

How do the various variables combine in the prediction of behavioral intention to complete the first term enlistment? Table 13 summarizes the stepwise multiple regression. The multiple correlation is .51 with four variables and increases very slowly to .54 with the addition of the thirteenth variable, education. Expectancy of completing the first term enlistment, expected satisfaction, sum of the role outcome desirability ratings, and expectancy of finding an acceptable civilian job (negative

TABLE 13

STEPWISE MULTIPLE REGRESSION OF INTENTION TO COMPLETE FIRST

TERM ENLISTMENT ON PRE-RECRUIT TRAINING MEASURFS

VARIABLE	r	R	R <sup>2</sup>	· ·
Expectancy of completing first term enlistment	.43	.43	.181	
Expected overall general satisfaction	.32	. 48	.228	**
Sum outcome desirability ratings	.27	. 50	.246	
- Expectancy of finding acceptable civilian	17	.51	.256	
Sum role outcome expectancies: Marine	.32	.51	. 263	
- Expected group stability	10	. 52	. 268	
Role force: Marine	.38	. 52	.272	
Internal motivation	.28	. 53	. 276	
Difference role attraction: Marine-Civilian	. 27	. 53	.280	
Difference role force: Marine - Civilian	.36	. 53	. 283	
- Expected group permeability	11	. 53	. 285	•
Expected leader structure	.21	. 54	. 287	
Education	.08	. 54	.289	

Source: August 1976 Parris Island Accessions, N=1143, Printout A-17.

weight) were the first four variables to enter the prediction equation and accounted for 26% of the variance in intentions to complete the first term enlistment.

# Correlates of Intentions to Reenlist

The previous section dealt with intentions to complete the first term enlistment. This section deals with correlates of intentions to reenlist. Table 14 summarizes the various individual and organizational correlates of intention to reenlist. Among the demographic variables, minority status, higher education, and higher mental grade were associated with intentions to reenlist. Of the role attraction indices, Marine role attraction and role force, and the difference in role force (Marine-Civilian) were among the strongest correlate. Many of the "expected" job content, leadership, and group dimensions were significantly correlated with intention to reenlist. Expected leader consideration, autonomy, task significance, and feedback from job were among the stronger correlates.

Table 15 summarizes the multiple regression analysis. The first 11 variables account for 37% of the variance in intentions to reenlist.

Subsequent reports will deal with changes in intentions, changes in the correlates of intentions, and relations between intentions and actual behavior.

#### DISCUSSION AND SUMMARY

This report has described: the outcomes new recruits consider desirable and undesirable; the role-outcome expectancies for both Marine and civilian roles; expectancies regarding chances of completing the first term enlistment, and chances of finding an acceptable civilian job; expected leadership, job content, and group characteristics; and behavioral

TABLE 14 PRE-RECRUIT TRAINING CORRELATES OF INTENTION TO REENLIST

. Variable	Correlation	Variable	Correlation
emographic		Job Content	
Race	09**	Skill Variety	.17**
Marital Status	.01	Task Identity	.17**
Number Dependents	-,02	Task Significance	.20**
Age	.01	Autonomy	.24**
Education	**80	Feedback from Job	.20**
Mental	.13**	Feedback from Others	.16**
LIGHT CO.	(13""		
-1		Dealing with Others	.03
ole Attraction		Internal Motivation	.23**
		Growth Need	.16**
Sum Outcome Desirability			
Ratings	.21**	Group	
Sum Outcome Expectancies:			
Marine	.37**	Control	-, 03
Sum Positive-Negative Out-		Stability	, 02
come Expectancies: Marine	.33**	Intimacy	.71**
Sum Outcome Expectancies:		Stratification	<b></b> 06*
Civilian	03	Hedonic Tone	**OF;
Sum Positive-Negative Out-		Autonomy	. 03
come Expectancies: Civilia	an04	Potency	.17**
Role Attraction: Marine	,33**	Viscidity	. óá**
Role Attraction: Civilian	.04	Permeability	06*
Expectancy of Completing	. 07	Participation	.13**
	.24**		
First Term	. 24""	Polorization	02
Expectancy of Finding	9.044	Flexibility	-, 08**
Civilian Job	13**	Homogeneity	<b>12**</b>
Force: Marine Role	.34**		
Force: Civilian Role	07**		
Difference in Force:			
Marine-Civilian	.36**	1	
Difference in Attraction:			
Marine-Civilian	.34**		
Difference in Expectancy:		f 1	
Marine-Civilian	.14**		•
eadership		7 i i 1	
	8.644	i ·	
Consideration	.30**		
Initiating Structure	.06*		
ociometric		,	
Attraction	07**		
Proficiency	.16**		

Source: August Parris Island Accessions, Max N=1960 Printout A-22

\* p< .05 \*\* p < .01

(1977年) のなる (1977年) かんかん (1987年) (19

Table 15

STEPWISE MULTIPLE REGRESSION OF INTENTION TO REENLIST ON PRE-RECRUIT TRAINING MEASURES

Variable	r	R	Ŗ <sup>2</sup>	_
Sum Role Outcome Expectancies: Marine	.37	.37	.136	
Expected Overall Satisfaction	.36	.44	.191	
Difference in Role Force: (Marine- Civilian)	.36	.46	.214	
Leader Consideration	.30	.48	.230	
Difference in Role Expectancy (Marine-Civilian)	.14	.49	. 243	
Expectancy of Finding Civilian Job	13	.50	. 253	
Role Force: Marine	.34	. 54	. 299	
Race (O=Minority/1=Caucasian)	09	.56	.316	
Expectancy of Completing Enlistment	.24	.58	.331	
Sum Outcome Desirabilities	.21	.60	.356	
Feedback From Job	.20	.61	. 366	

Source: August Parris Island Accessions, Max N=1143, Printout A-22

intentions to complete the first term enlistment and to reenlist.

Based on the results presented in the present study, several generalizations are offered. New recruits, on the average, place the highest value on learning new skills, extrinsic rewards such as pay and benefits, and working for an organization that keeps its promises and rewards good performance. Somewhat surprising was the more neutral average desirability associated with extensive travel, danger, and a job that is important to the country. Least desirable were long separations from home and family, disruption of marriage and family plans and a job with little responsibility.

Potential implications of outcome desirability values include the following. The Marine Corps advertising and recruiting efforts should emphasize those outcomes which are both desirable from the potential recruits perspective and potentially attainable in the Marine Corps. To the extent feasible, reward contingencies should be designed to enhance the attainability of desired outcomes and minimize undesired outcomes.

It was evident that the new recruits had high Marine role-outcome expectancies for many of the desired outcomes. It remains to be seen if these expectancies are realized in the Marine role. As Porter and Steers (1973) and others have noted, unmet expectations may be a primary contributor to withdrawal behavior. This will be evaluated over the course of this longitudinal research.

With respect to role expectancies, it was interesting to observe that 17% of the new recruits saw a 50-50 or less chance of completing their enlistment. Previous research has demonstrated this type of expectancy is a useful predictor of behavior. If this variable subsequently turns out to be a significant predictor of attrition, strategies for enhancing

this expectancy should be evaluated. While only 42% of the new recruits saw a greater than 50-50 chance of finding an acceptable civilian job, it will be interesting to see if this increases as the economy improves, and/or with experience in the Marine Corps, and whether this expectancy is predictive of actual attrition.

The role attraction indices revealed that the Marine role was significantly more attractive than the civilian role for the new recruits. This comes as no surprise. However, to the extent this attraction is based on unrealistically high expectations, it could have negative consequences later. This will be a primary focus of the continuing longitudinal study.

Previous research (Kraut, 1975; Locke, 1975; Mobley, 1977) has suggested that behavioral intentions are among the better predictors of subsequent behavior. In the present study, 20% of the new recruits indicated they were, at best, uncertain about intending to complete their enlistment and only 28% indicated they intend to reenlist. These intentions may be early warning signs for withdrawal behavior. Although this hypothesis cannot be tested until later in the study, it was possible to analyze the concurrent correlates of pre-recruit training intentions.

The single strongest correlate of intention to complete was role expectancy, i.e. perceived chances of completing. Expected overall satisfaction, expectancy of finding a civilian job, and sum of the Marine role-outcome expectancies added to the prediction of this intention. Those who do not intend to complete, even before recruit training, are less confident they can complete, expect to be less satisfied, have lower outcome expectancies, and see a higher chance of finding a civilian job. If these variables hold up in the prediction of actual attrition, they clearly have recruiting, selection, and/or early counseling implications.

When the pre-recruit training measures were subdivided by race and education, a number of significant differences were observed. To the extent these differences are related to job attitudes and behavior, they are worthy of note by recruiters, leaders, and planners.

While the descriptive information provided in the present report is interesting and of potential diagnostic value, it is the relationship between these variables and actual attrition that must serve as the basis for action implications. The prediction of actual recruit training attrition will be the subject of the next report in this series.

APPENDIX 1
LIST OF MEASURES AND DIMENSION DEFINITIONS

#### APPENDIX I

# MEASURES AND DIMENSION DEFINITIONS

- A. Job Content Dimensions (Job Diagnostic Survey, Hackman and Oldham)
  - 1. Skill Variety: The degree to which a job requires a variety of different activities in carrying out the work, which involve the use of a number of different skills and talents of the employee.
  - 2. Task Identity: The degree to which the job requires the completion of a "whole and identifiable piece of work i.e. doing a job from beginning to end with a visible outcome.
  - 3. Task Significance: The degree to which the job has a substantial impact on the lives or work of other people - whether in the immediate organization or in the external environment.
  - 4. Autonomy: The degree to which the job provides substantial freedom, independence, and discretion to the employee in scheduling his work and in determining the procedures to be used in carrying it out.
  - 5. Feedback From The Job Itself: The degree to which carrying out
    the work activities required by the job results in
    the employee obtaining information about the
    effectiveness of his or her performance.
  - 6. Feedback From Agents: The degree to which the employee receives information about his or her perfromance and effectiveness from supervisors or from co-workers.

- 7. <u>Dealing With Others</u>: The degree to which the job requires the employee to work closely with other people (whether other organization members or organizational "clients").
- 8. Affective Responses to the Job: The private, affective reactions or feelings an employee get from working on his job.
  - a) General Satisfaction: degree to which employee is satisfied and happy in his work.
  - b) Internal Work Motivation: degree to which the employee is self motivated to perform effectively on the job.
  - c) Specific Satisfaction: pay, security, social, supervisory, growth.
- 9. <u>Individual Growth Need</u>: The degree to which an employee has a strong vs. weak desire to obtain "growth" satisfaction from his or her work.
- 10. Motivating Potential Score: Reflects the potential of a job
  from eliciting positive internal work motivation
  on the part of employee, especially those with
  high desire for growth need satisfaction. Score
  is: Average of skill variety, task identity,
  and task significance; times autonomy; times
  feedback from job.
- B. <u>Leadership</u> (Leader Behavior Description Questionnaire, Stogdill and Coons)
  - 1. Consideration: extent to which leader subordinate relations

are characterized by mutual trust, respect, consideration

- 2. <u>Initiating Structure</u>: leader defines roles and goals, leader active in planning, scheduling, and criticizing, etc..
- C. Group (Group Dimensions Description Questionnaire, Hemphill)
  - 1. Autonomy: group functions independently of other groups
  - 2. Control: group regulates behavior of individuals in the group
  - 3. Flexibility: informal rather than formal rules, procedures
  - 4. <u>Hedonic Tone</u>: group membership leads to pleasant feelings, little griping, complaining
  - 5. <u>Homogeneity</u>: similarity of group in social characteristics, age, sex, race, social-economic status
  - 6. Intimacy: members familiar with others and their needs
  - 7. <u>Participation</u>: degree to which members apply time and effort to groups formal and informal activities.
  - 8. Permeability: ease of access to group
  - 9. <u>Polarization</u>: degree to which group is oriented toward clear and specific goal
  - 10. <u>Potency:</u> degree to which group has primary significance to its members
  - 11. Stability: degree to which group remains in tact over time
  - 12. <u>Stratification</u>: degree to which group orders its members into status hiearchies
  - 13. <u>Viscidity:</u> degree to which group functions as a unit, absence of dissention, personal conflict.

# D. Sociometric

- 1. Attraction: attractiveness of a group and its members
- 2. Proficiency: evaluation and confidence in groups performance

# E. Role Attraction

- 1. Role Attraction: Marine: extent to which Marine Role is seen as leading to attainment of desirable outcomes and not to undesirable outcomes; sum of the cross products of 50 role outcome desirability ratings and marine role outcome expectancy ratings.
- 2. Role Attraction: Civilian: extent to which civilian role is seen as leading to attainment of desirable outcomes and not to undesirable outcomes. Sum of the cross products of 50 role outcome desirability ratings and civilian role outcome expectancy ratings.
- 3. Role Force: Marine: Marine Role Attraction weighted by expected chance of successfully completing first term enlistment.
- 4. Role Force: Civilian: Civilian Role Attraction weighted by expected chance of finding an acceptable civilian job.

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